

AWARD REPORT

November 2021

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Sponsor Name	Title
Dean Bangsund	AES & EXT	AES Agribusiness & Applied Economics	Nancy Hodur	\$ 99,996.00	ND Soybean Growers Association	Economic Contribution of Agriculture in North Dakota
William Wilson	AES & EXT	AES Agribusiness & Applied Economics	David Bullock Prithviraj Lakkakula	\$ 40,000.00	USDA-AMS / University of Georgia	Implications of Recent Surging Ocean Transportation Rates on the Markets for Certain Agricultural Products
Ewumbua Monono	AES & EXT	AES Agricultural & Biosystems Engineering		\$ 53,815.00	USDA-NIFA / United Tribes Technical Colleges	Bio-based polymer degradation and impact on human health
Robert Maddock	AES & EXT	AES Animal Sciences	David Boehm Kim Koch	\$ 49,157.00	MN Soybean Research & Promotion Council	Impact of High Oleic Soybeans (Trusoy) on Meat and Carcass Quality Traits of Pigs
Robert Maddock	AES & EXT	AES Animal Sciences		\$ 21,500.00	Texas A & M University	National Beef Tenderness Survey 2021-2022
Alison Ward	AES & EXT	AES Animal Sciences	Wellison Da Silva Diniz Carl Dahlen	\$ 300,000.00	USDA National Institute of Food & Agriculture	Transgenerational Impacts Of Maternal Nutrition On Fetal Epigenetic Programming
David Kramar	AES & EXT	AES Carrington Research / Extension Center		\$ 40,000.00	North Central Soybean Research Program / University of Wisconsin Madison	Using data-driven knowledge for profitable soybean management systems
Michael Ostlie	AES & EXT	AES Carrington Research / Extension Center		\$ 6,095.10	Grain Foods Foundation	Zinc Biofortification Strategies in Spring Wheat
Michael Ostlie	AES & EXT	AES Carrington Research / Extension Center		\$ 4,560.00	National Wheat Foundation	Zinc Biofortification Strategies in Spring Wheat
Brian Jenks	AES & EXT	AES North Central Research / Extension Center		\$ 4,000.00	USDA-NIFA / Michigan State University	IR4 Testing 2021/2022
Samuel Markell	AES & EXT	AES Plant Pathology		\$ 180,342.00	USDA-AMS / ND Department of Agriculture	Specialty Crop Block Grant Program - Farm Bill Activities - Impacts of Fungicide Applications and Plant Diseases on Specialty Crop Yields after Hail
Jack Rasmussen	AES & EXT	AES Plant Pathology		\$ 66,000.00	Southern Illinois University Carbondale	Seedling Pathogens in the Soybean Production Cycle: Management and Communication
Nonoy Bandillo	AES & EXT	AES Plant Sciences	Paulo Flores	\$ 190,453.00	USDA-AMS / ND Department of Agriculture	Specialty Crop Block Grant Program - Farm Bill Activities - Translating High-Throughput Phenotyping into Realized Genetic Gain in Pulse Crops
Marisol Berti	AES & EXT	AES Plant Sciences		\$ 747,870.00	USDA-NIFA / University of Wisconsin Madison	Fostering Resilience and Ecosystem Services in Landscapes by Integrating Diverse Perennial Circular Systems
Harlene Hatterman-Valenti	AES & EXT	AES Plant Sciences		\$ 18,597.00	USDA-AMS / University of Minnesota	Terroir: How Soils Impact Minnesota Cold Hardy Grapes and Wine Quality
Burton Johnson	AES & EXT	AES Plant Sciences		\$ 153,550.00	University of Colorado Boulder	Silphium of the Future: Developing Resources and Methods to Cross the Bridge from Wild Species to Domesticated Crop
Juan Osorno	AES & EXT	AES Plant Sciences	Phillip McClean	\$ 162,533.00	USDA-AMS / ND Department of Agriculture	Specialty Crop Block Grant Program - Farm Bill Activities - Pyramiding Desirable Bean Rust Genes for Broader and Durable Resistance
Thomas Peters	AES & EXT	AES Plant Sciences		\$ 15,188.00	UPL NA Inc.	Acifluorfen Sugarbeet Tolerance and Weed Control Project
Christina Hargiss	AES & EXT	AES School of Natural Resource Sciences		\$ 67,232.00	USGS / ND Water Commission	Improving Data and Understanding of Rural Water Suppliers in North Dakota to Support the North Dakota State Water Commission

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Miranda Meehan	AES & EXT	Ext Animal Sciences	Xinhua Jia	\$ 57,568.00	USDA-NIFA / South Dakota State University	Filling the Pipeline- Preparing the Next Generation of Watershed Management Extension Professionals
Carrie Johnson	AES & EXT	Ext Child Development & Family Science		\$ 24,993.00	USDA-NIFA / South Dakota State University	Gerontology Specialist Jane Strommen
Julie Garden-Robinson	AES & EXT	Ext Food & Nutrition		\$ 6,000.00	USDA-NIFA / Iowa State University	Ensuring Food Safety Competency of Produce Growers and Processors in the NCR Through Expanded Collaboration with Diversified Populations
Kimberly Bushaw	AES & EXT	Ext HD General	Carrie Johnson	\$ 288,749.00	DHHS-ACF / ND Department of Human Services	Community-based Child Abuse Prevention (ARA)
Janet Knodel	AES & EXT	Ext Plant Pathology	Patrick Beauzay Andrew Friskop Samuel Markell Esther McGinnis Presley Mosher Andrew Thostenson	\$ 230,042.00	USDA National Institute of Food & Agriculture	Extension IPM Program of North Dakota
Samuel Markell	AES & EXT	Ext Plant Pathology		\$ 14,000.00	University of Kentucky	SCN Coalition: Reinforcing and Maintaining Local Efforts and Sustainable Yields
Samuel Markell	AES & EXT	Ext Plant Pathology	Julie Pasche	\$ 121,177.00	USDA-AMS / ND Department of Agriculture	Specialty Crop Block Grant Program - Farm Bill Activities - Virtual Experiences Delivering Real Protection of Specialty Crops from Plant Diseases and Economic Loss
David Boehm	CAFSNR	Northern Crops Institute	Bingcan Chen	\$ 550.00	U.S. Soybean Export Council	Tofu and Soymilk Comparison for U.S., Chinese and Indian Soyfood Beans
Brian Sorenson	CAFSNR	Northern Crops Institute		\$ 10,000.00	American Soybean Association	Project to Develop Baking Guides for the Baking with Soy Program
Nancy Hodur	CAHSS	Center for Social Research		\$ 10,000.00	McKenzie County Healthcare Systems	Economic Contribution of Rural Health Care Providers: McKenzie County Healthcare Systems
Nancy Hodur	CAHSS	Center for Social Research	Dean Bangsund	\$ 35,844.00	Metro Flood Diversion Authority	Labor Requirements for Constructing the FM Diversion
Nancy Hodur	CAHSS	Center for Social Research		\$ 1,320.00	ND Dental Foundation	Mission of Mercy Patient Survey Data Analysis
Dennis Cooley	CAHSS	History, Philosophy & Religious Studies		\$ 5,000.00	National Arts Strategies, Inc	Strategic Fundraising and Capital Campaigns for Minority Nonprofit Organizations in the Fargo-Moorhead Area (FMA) and the Great Plains Region (GPR)
Michael Strand	CAHSS	Visual Arts		\$ 55,500.00	ND Council on the Arts	Tiny Press Kit / Creative Aging
Ying Huang	CENG	Civil & Environmental Engineering	Trung Q Le	\$ 1,499,551.00	National Science Foundation	RII Track-2 FEC: Artificial Intelligence on Sustainable Energy Infrastructure Network (AI SUSTEIN) and Beyond towards Industries of the Future
Kalpana Katti	CENG	Civil & Environmental Engineering	Dinesh Katti	\$ 75,000.00	NIH / University of North Dakota	Prostate Cancer Bone Metastasis Testbed for Regenerative Bone Therapies for Bone Metastasis

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Wenjie Xia	CENG	Civil & Environmental Engineering		\$ 206,661.00	National Science Foundation	Collaborative Research: Multiscale Mechanics of Adsorption-Deformation Coupling in Soft Nanoporous Materials
Qifeng Zhang	CENG	Electrical & Computer Engineering		\$ 82,856.00	National Aeronautics and Space Administration	A flash co-sintering strategy for the fabrication of LiPON-based bulk-type solid-state lithium ion battery
Lokesh Narayanan	CENG	Industrial & Manufacturing Engineering		\$ 12,045.00	Center for Bioplastic and Biocomposites	Strengthening 3D printed (FDM) parts through application of ultrasonic vibration
Ali Amiri	CENG	Mechanical Engineering	Chad Ulven	\$ 17,901.00	Center for Bioplastic and Biocomposites	Investigating root-cause and reduce fogging behavior of natural fiber-filled thermoplastics – Cont.
Adam Gladen	CENG	Mechanical Engineering	Ghasideh Pourhashem Yao Yu	\$ 440,125.00	Department of Energy	Development of a thermochemical, nanocellulose-based material for thermal energy storage
Brenda Field	CHP	Nursing, Sanford Bismarck		\$ 50,800.00	NDSU Foundation & Alumni Association	Nursing Simulator for Hands On Learning in Bismarck
Buddhadev Layek	CHP	Pharmaceutical Sciences		\$ 56,000.00	NIH / University of North Dakota	Tumor-targeted Delivery of Chemotherapeutic for Effective Management of Lung Cancer
Sijo Mathew	CHP	Pharmaceutical Sciences		\$ 56,000.00	NIH / University of North Dakota	Defining the role of Integrin-talin complex in renal cancer progression and fibrosis
Kristine Steffen	CHP	Pharmaceutical Sciences		\$ 117,149.00	NIH / Sanford Research North	Biobehavioral Factors and their Impact on Stress-Related Eating in Obesity
Heidi Eukel	CHP	Pharmacy Practice	Elizabeth Skoy Jayme Steig Mark Strand Amy Werremeyer	\$ 444,717.00	ND Department of Human Services	Preventative Care Collaboration – Opioid and Hepatitis C Risk Prevention
Pamela Johnson	CHP	Public Health	Nancy Hodur Carrie Johnson	\$ 2,986,045.00	CDC / ND Department of Health	Community-Engaged COVID-19 Mitigation Strategies to Reduce Disparities in Underserved Populations
Mary Larson	CHP	Public Health		\$ 423,324.00	CDC / ND Department of Health	Improving Vaccine Confidence on College Campuses
Matthew Smith	CSM	Biological Sciences		\$ 74,200.00	NDSU Foundation & Alumni Association	Modernizing Molecular Biology in Introductory Biology Labs
Philip Boudjouk	CSM	Chemistry and Biochemistry		\$ 300,000.00	DoD / PPG Industries	Silicon-Based Battery Materials
Xiaoning Qi	CSM	Coatings & Polymeric Materials	Shane Stafslie Dean Webster	\$ 200,000.00	DoD / PPG Industries	Improved Watercraft Coatings II
Xiaoning Qi	CSM	Coatings & Polymeric Materials		\$ 31,375.00	MN Department of Transportation	High-Pressure Hot Water Blasting Surface Preparation and HRCSA Coatings for Bridge Maintenance
Andriy Voronov	CSM	Coatings & Polymeric Materials	Ghasideh Pourhashem	\$ 19,292.00	Center for Bioplastic and Biocomposites	Plant Oil-Based Latex Adhesives (Year 2)
Dean Webster	CSM	Coatings & Polymeric Materials	Mukund Sibi	\$ 21,968.00	Center for Bioplastic and Biocomposites	Exploration of Bio-based Functional Building Blocks for Durable Coatings
Marianne Quittschreiber	Misc	Wellness Center		\$ 956.87	ND Department of Public Instruction	NDSU Wellness Center Child Care ND Food Program
Marianne Quittschreiber	Misc	Wellness Center		\$ 1,703.16	ND Department of Public Instruction	NDSU Wellness Center Child Care ND Food Program

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Jill Hough	UGPTI	Upper Great Plains Transportation Institute		\$ 464,400.00	DOT / Montana State University	Small Urban, Rural and Tribal Center on Mobility
Kimberly Vachal	UGPTI	Upper Great Plains Transportation Institute		\$ 39,050.00	NHTSA / SD Department of Public Safety	Statewide Seat Belt Survey to Enhance Traffic Safety in South Dakota
Bradley Wentz	UGPTI	Upper Great Plains Transportation Institute		\$ 30,000.00	DOT / Bismarck-Mandan Metro. Planning Org.	North Dakota MPO Planning Support Program Master Agreement
Bradley Wentz	UGPTI	Upper Great Plains Transportation Institute		\$ 30,000.00	DOT / FM Metro Council of Governments	North Dakota MPO Planning Support Program Master Agreement
Bradley Wentz	UGPTI	Upper Great Plains Transportation Institute		\$ 30,000.00	DOT / GF/EGF Metro Planning Organization	North Dakota MPO Planning Support Program Master Agreement
Bradley Wentz	UGPTI	Upper Great Plains Transportation Institute		\$ 30,000.00	DOT / ND Department of Transportation	North Dakota MPO Planning Support Program Master Agreement
Bradley Wentz	UGPTI	Upper Great Plains Transportation Institute		\$ 19,537.00	FHA / ND Department of Transportation	2020 Advanced Traffic Analysis Center